

What is claimed is:

1. An electromagnetic valve comprising:

an iron core;

a coil defining a longitudinal axis and being tightly connected to said iron core;

5 an armature plate movably mounted for movement relative to said iron core in the direction of said longitudinal axis;

said armature plate having a side facing toward said coil and having a peripheral region on said side;

a first flow channel opening at said peripheral region;

10 a second flow channel opening at said armature plate; and, said armature plate being movable between a first position whereat said first and second channels communicate with each other and, when there is a current flow in said coil, a second position whereat said first and second flow channels are fluidly separated from each other.

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2. The electromagnetic valve of claim 1, wherein said second flow channel opens at a side of said armature plate facing away from said coil.

3. The electromagnetic valve of claim 1, wherein said first flow channel is closed by said armature plate when in said second position.

4. The electromagnetic valve of claim 2, further comprising an annular gap formed at the periphery of said armature plate; and, said first and second flow channels communicating with each other via said annular gap.

5. The electromagnetic valve of claim 4, wherein said valve further comprises a housing common to said coil and said iron core and said coil and said iron core are injection molded in said housing.

6. The electromagnetic valve of claim 5, wherein said housing defines a contact surface for said armature plate in the region of the opening of said first channel; and, said iron core is set back from said contact surface.

7. The electromagnetic valve of claim 5, wherein said valve further comprises a yoke.

8. The electromagnetic valve of claim 7, wherein said yoke is formed as one piece with said iron core.

9. The electromagnetic valve of claim 7, wherein said first flow channel is formed in said housing and said yoke has a cutout formed in the region of said opening of said first flow channel.

10. The electromagnetic valve of claim 5, wherein said housing has an annular channel at the periphery thereof; and, said valve comprises a plurality of said first channels fluidly connected to each other via said annular channel.

11. The electromagnetic valve of claim 10, wherein said first channels are symmetrically arranged about said longitudinal axis.

12. The electromagnetic valve of claim 1, further comprising a spring for resiliently biasing said armature plate into said first position away from said coil.

13. The electromagnetic valve of claim 12, wherein said armature plate is guided by said spring.

14. The electromagnetic valve of claim 13, further comprising stop means for delimiting the axial movement of said armature plate.

15. The electromagnetic valve of claim 14, further comprising a housing common to said coil and said iron core and said coil and said iron core being mounted in said housing; and, a cover enclosing said armature plate and said stop means being formed

5 on said cover.